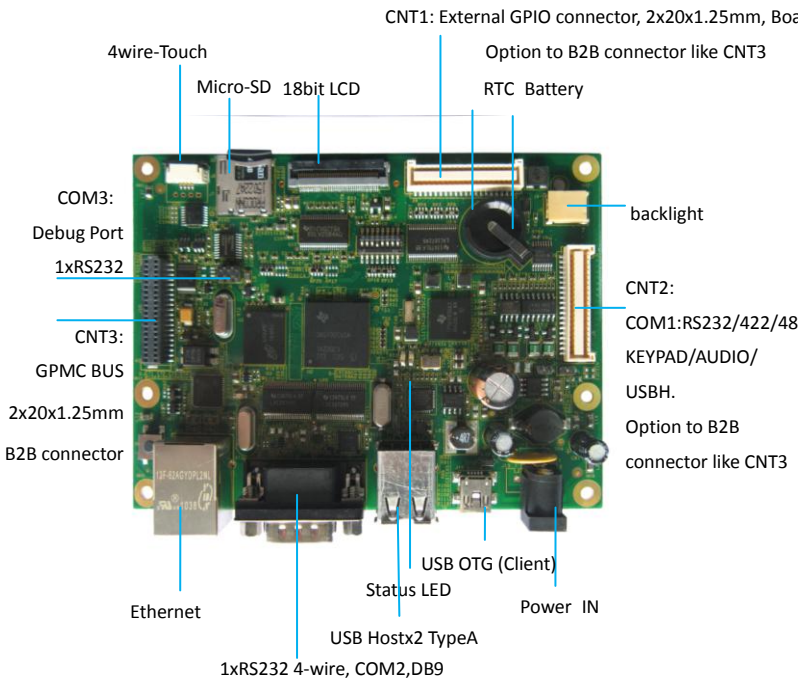
VT-SBC 35_37 Board

Single Board Computer

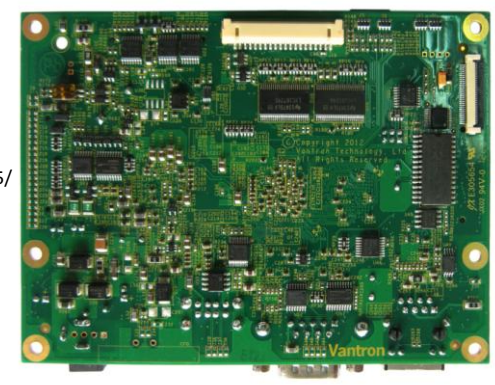
CPU Board: VT-SBC 35_37, single Board computer, with TI OMAP 35xx / 37xx series ARM Cortex A8 Processor

Features

- TI, DM/AM37xx (800M/1GHz) or OMAP 35xx (600/720MHz) Low Power Processor
- On Board DDR 166MHz, 256MB (512MB optional)
- On Board NAND Flash, 512MB (1GB Optional)
- Display: LCD, LVDS
- Resolution:XGA,WXGA,SXGA,HD720,max 2048x2048
- 1xmicro-SD
- 1xGPMC Bus(10bit address and 16bit data)
- 4xUSB 2.0 Host(2xUSB typeA,), 1xUSB OTG 2.0
- 3xCOM Port(4wires), 2xI2C Bus, 2xSPI
- 1x10/100Mbps ethernet, RJ45
- 1xVideo/Camera Input, 12bit
- 6x6 Keypad Array
- Audio Interface, MIC IN, Line Out R/L
- 1xRTC by TPS65930
- 6-36V Power Supply, Low Power design
- Embedded Linux, WinCE, Supported

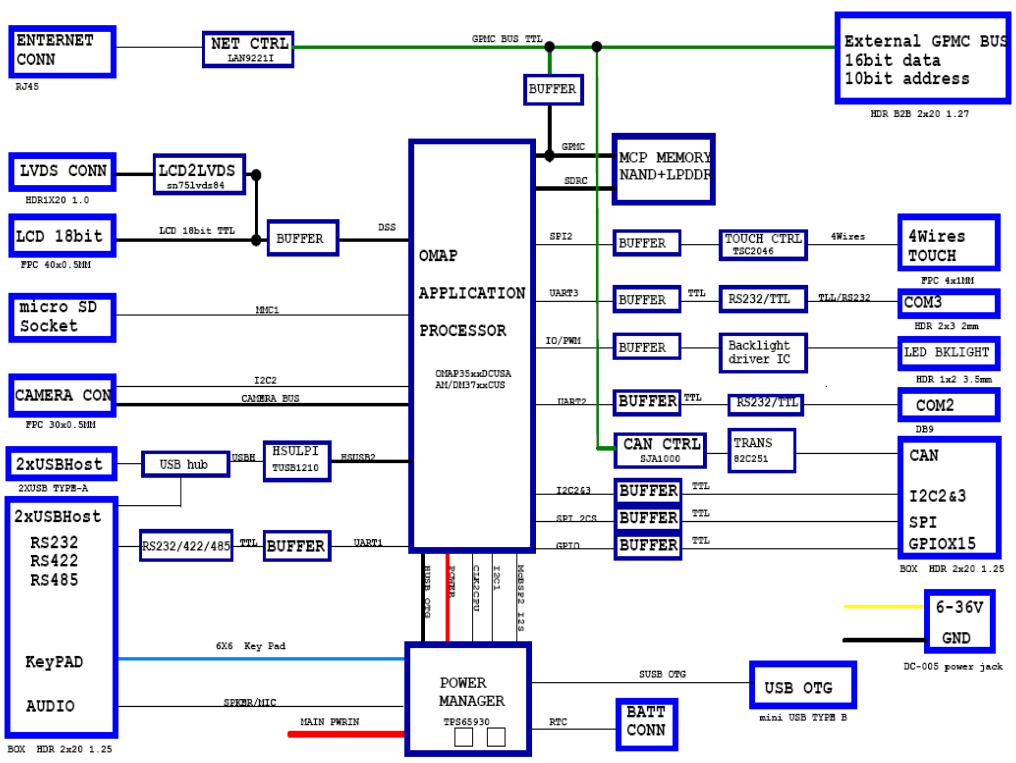


Top View



Bottom View

CPU Board Specifications		
System	Processor	TI,DM/AM37xx(800M/1GHz) or OMAP35xx(600/720MHz) ARM Cortex A8 Core, Floating unit, DSP Core available (DM/OMAP3x30,3x25), Power Management and IO by TPS65930
	On Board Memory	Flash and DDR in MCP: RAM: DDR 166MHz, 256MB (512MB optional) ROM: NAND Flash,512MB (1GB Optional)
	Extended Memory	1xmicro-SD
Display	Video Out	2D/3D Accelerator available(OMAP3x30,3x15) 1xLVDS/TTL, up to 2048x2048; 1x24 bit DSS bus interface
Audio	Audio	I2S Codec, MIC1/MIC2 input, Line Output R/L
Bus	GMPC	1xGPMC Bus (10bit address and 16bit data)
Peripheral	LAN	1x10/100Mbps Ethernet, RJ45
	CAN	1xCAN 2.0b
I/Os	USB	4xUSB2.0 Host (480Mbps) 1xUSB2.0 Client(480Mbps)
	COM Port	3xCOM Port. 1xRS232 (4Wires,DB9), 1xRS232 (for debug) 1xRS232/422/485 Selectable, 2xI2C 2xSPI/SSP Interface
	IOs	6x6 array key board 15xGPIOs 1xCamera Interface, 12bit
	RTC	Supported by TPS65930
Software	OS	Supported: Linux, WinCE
	SDK	Supported
Power	Input	6-36V Input,
Mechanical	Dimensions	120 x 90mm
Environment Condition	Temperature	Operating:-20℃ ~ +70℃, (ETR:-40℃ ~ +85℃ optional) Storage: -40℃ ~ +85℃
	Humidity	10-85%RH (Non-Condensation), operating and storage
	Cooling Mode	Fanless



Order Code

VT- SBC 3X-ASS-BBBM-CCCF-V

- Version:
  - I: Extended Temperature
  - Blank: Commercial Temperature
- Flash Memory Size: in MB, 128/256/512MB
- DDR Memory Size: in MB, 128MB or 256MB
- CPU speed: 60: 600MHz, 70:720MHz, 80 for800MHz, 1G: 1GHz
- CPU series: 5-3/2/1/0: Means OMAP 3530/3525/3515/3503
  - 7-3/2/1/0: Means OMAP 3730/3725/3715/3703

Order Part Example	
VT-SBC 35-160-256M-512F-I	TI OMAP 3515 600MHz CPU,512MB DDR, 256MB Flash, ETR
VT-SBC 37-180-512M-512F	TI OMAP 3715 800MHz CPU,512MB DDR, 512MB Flash
VT-SBC 35-360-256M-512F-I	TI OMAP 3530 600MHz CPU,512MB DDR, 256MB Flash, ETR
VT-SBC 37-380-512M-512F	TI OMAP 3730 800MHz CPU,512MB DDR, 512MB Flash

NOTES:

IO and bus connectors CNT1, CNT2, can be B2B connector like CNT3. So it can option to support pin out IO signals and expand peripherals by a connector board upon this single board.

All specifications are subject to change without notice. Please contact Vantron for additional requirements.

Vantron

US Office: Vantron Technology, Inc.
Address: 1292 Kifer Road #807
Sunnyvale, CA 94086
Tel: 510-304-7666
Email: sales@vantrontech.com

China Office: Chengdu Vantron Technology, Ltd
Address: 3rd floor, 3rd building, No.9, 3rd WuKe East Street, WuHou District,
Chengdu, P.R. China 610045
Tel: 86-28-8512-3930/3931, 8515-7572/6320
Email: sales@vantrontech.com.cn